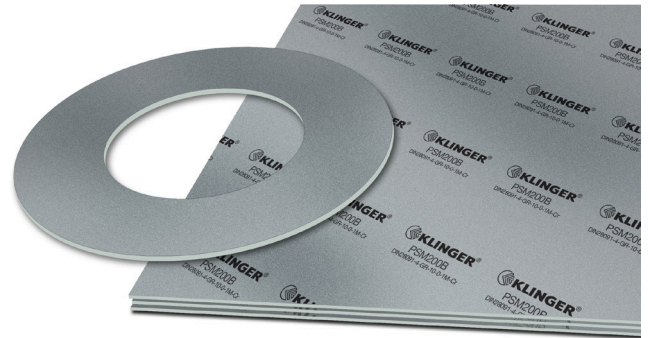




KLINGER®Graphite Laminate PSM - the pure graphite gasket with tanged sheet metal insert.

Made of expanded graphite with an 0.1 mm thick insert of tanged stainless steel and featuring adhesive-free bonding, this gasket material is ideal for hot water and steam applications at temperatures of up to 450 °C, in which it displays no change to its physical properties. Furthermore, it is free of resins, impregnations or other organic substances.



Basis composition Expanded graphite with a 0.1 mm thick tanged stainless steel insert.

Color Grey

Certificates DIN-DVGW, KTW,
Fire Safe acc. to DIN EN ISO 10497,
German Lloyd, BAM tested

Sheet size 1000 x 1000 mm, 1500 x 1500 mm,
2000 x 1000 mm

Thickness 0.6 mm, 0.8 mm, 1.0 mm, 1.5 mm, 2.0 mm,
3.0 mm, 4.0 mm, 5.0 mm, 6.0 mm

Tolerances

Thickness: ± 5 %
Length: ± 5 mm
Width: ± 5 mm

Industry

General industry / Chemical / Oil & Gas / Energy / Pulp & Paper / Marine / Automotive

TECHNICAL DATA - Typical values for a thickness of 2.0 mm

Density of the graphite layer	DIN 28090-2	g/cm ³	1.0
Purity of graphite ¹⁾	DIN 51903	%	≥ 99.0
Metallic reinforcement	Tanged metal		AISI 316 (L)
	Thickness	mm	0.10
	Number of sheets		1
Compressibility	ASTM F36 A	%	35 - 45
Recovery	ASTM F36 A	%	12 - 18
Compression creep DIN 52913	16 h/ 50 MPa/ 300°C	MPa	≥ 46
Klinger cold/hot compression 50 MPa	Thickness decrease at 23°C	%	35 - 45
	Thickness decrease at 300°C	%	1 - 3
Specific leak rate	DIN 28090-2	mg/ s x m	< 0.10
Chloride content of graphite layer ²⁾	DIN 28090-2	ppm	≤ 40

1) High purity graphite with a purity of ≥99.8 with low sulphur and chloride levels available per request.

2) Detailed specifications of the used graphite foils are found in our Graphite vade mecum, which will be sent to you on request with pleasure

